

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2001-10
(Amended)

FOR

SONOMA COAST ASSOCIATES

Jenner Gulch, Sonoma County

MONITORING

Sonoma Coast Associates shall perform water quality monitoring in Jenner Gulch and its tributaries to measure and assess sediment delivery to waters of the State from activities associated with Timber Harvest Plan No. 1-00-040 SON and other human-caused sediment sources as follows:

Sampling Stations:

- No. 1 Jenner Gulch, 100 feet downstream of its confluence with the in-unit tributary (Point 1 on the attached map)
- No. 2 In-unit tributary 50 feet upstream of its confluence with Jenner Gulch (Point 2 on the attached map)
- No. 3 Jenner Gulch, 50 feet upstream of its confluence with the in-unit tributary (Point 3 on the attached map)
- No. 4 In-unit tributary immediately downstream of Unit 9 of Timber Harvest Plan 1-00-040 SON (Point 4 on the attached map)

Sampling Schedule and Frequency:

1. Sonoma Coast Associates shall collect grab water samples from Sampling Stations Nos. 1, 2, 3 and 4 for turbidity, and estimate stream flow at each station in cubic feet per second when any of the following events occur:
 - a. Any day when turbidity at the Sonoma County's Jenner Gulch water supply treatment plant exceeds 60 NTUs.
 - b. If daily turbidity data from the Sonoma County's Jenner Gulch water supply treatment plant is not available by noon of the same day, then grab water samples shall be collected during each significant rainfall event. A significant rainfall event shall be defined as a rainfall event producing greater than 1.0 inch of rain in any 24-hour period as measured at the Venado rain station after an initial accumulation of 3 inches of rain during the rain year (July 1 to June 30 of each year). The information regarding Venado rainfall is available hourly on the Internet at <http://cdec.water.ca.gov/cgi-progs/queryF?s=VEN&d=now&span=24hours>. A significant rainfall event is considered terminated after two consecutive days with less than 0.2 inch of rain in a 24-hour period.
 - c. No more than one sampling event needs to be conducted within any consecutive seven-day period.
 - d. If conditions for sampling are unsafe, the conditions shall be noted in the log described in Monitoring Requirement 2b, and the sampling shall resume as soon as conditions are safe.
2. Grab water samples shall be collected and measured for turbidity using a portable nephelometer as follows:

- a. The nephelometer used shall be capable of accurately measuring turbidity to within ± 2 percent for turbidities within the range of 0 to 1000 NTU.
 - b. The nephelometer shall be calibrated according to the manufacturer's specifications prior to measuring the turbidity of the samples. The samples shall be tested according to the manufacturer's specifications and the measurements shall be recorded in a written log indicating the date, time, sample location, weather conditions, stream flow conditions, visual appearance (such as color or cloudiness), and the turbidity measurement. The log shall also include the manufacturer and model of the nephelometer, the date and time of the most recent calibration, the standards used for calibration and the name of the person collecting and measuring the sample.
 - c. The grab water sample shall be taken in close proximity to the most turbulent portion of the stream cross-section.
3. Whenever the turbidity measured at Sampling Station No. 1 exceeds the turbidity measured at Sampling Station No. 3 by 20% or greater, or if the turbidity measured at Sampling Station 2 or Sampling Station 4 exceeds 60 NTUs, a hillslope monitoring inspection shall be conducted. Hillslope monitoring shall include:
 - a. Following the turbidity trail to its source, but not beyond the boundaries of the land owned or controlled by Sonoma Coast Associates;
 - b. Mapping, photographing and describing in detail in a written log each sediment source exceeding 60 NTUs that likely contributed to the turbidity trail within the area covered by Timber Harvest Plan 1-00-040 SON. Water quality observations shall include stream bank erosion, natural landslide or debris flow, land management related erosion, road related erosion, and natural erosion that resulted in increased turbidity. The date of the inspection and name of the field staff conducting each inspection shall be set forth in the written log;
 - c. Determining the cause of the discharge resulting in the increased turbidity;
 - d. If the turbidity increase results from timber operations or other human-caused sources of sediment from land owned or controlled by Sonoma Coast Associates, the turbidity source(s) should be corrected as soon as possible. If the turbidity source is not easily corrected, Sonoma Coast Associates shall develop long term erosion control measures and a time schedule for implementation; and
 - e. Notification of the North Coast Regional Water Quality Control Board the day of each hillslope inspection.

REPORTING

Sonoma Coast Associates shall submit a report to the North Coast Regional Water Quality Control Board by the fifteenth calendar day of each month detailing the activities of the previous month, except that Sonoma Coast Associates need not submit a report if there was no significant rainfall and turbidity at the Sonoma County's Jenner Gulch water supply treatment plant did not exceed 60 NTUs during the previous month. The report shall include the following information:

1. Turbidity grab sample measurements collected during the previous month as described in Monitoring Requirement 1 and 2 above. Copies of the field log as described in Monitoring Requirement 2b, and a map with the sample locations clearly and accurately shown shall be included. The estimated stream flow at the sampling station in cubic feet per second during each sampling event shall also be reported.
2. Copies of the field inspection log as described in Monitoring Requirement 3b. A written description of any water quality observations including, but not limited to, stream bank erosion, natural landslide or debris flow, land management related erosion, road related erosion, and natural erosion that were observed during the previous month that likely

resulted in increased turbidity shall be submitted in accordance with Monitoring Requirements 3b and 3c above.

3. A detailed description of any erosion control activities taken during the previous month (and any proceeding months not already addressed in a monthly report), including a map of the location(s) and the date(s) erosion control actions were taken. The report shall indicate if long-term erosion control measures and a time schedule are needed. The report shall include a complete description of any long term erosion control measures and time schedule for implementation that have been developed in accordance with Monitoring Requirement 3d above.

Sonoma Coast Associates shall implement this Monitoring and Reporting Program commencing immediately upon falling of timber. The Regional Water Board understands that Sonoma Coast Associates intends to conduct road repair prior to falling timber. If there is excessive turbidity at the Sonoma County's Jenner Gulch water supply treatment plant prior to the falling of timber, the Regional Water Board expects that Sonoma Coast Associates shall promptly grant access to Regional Water Board staff to investigate potential sources, and shall take appropriate action to correct any such non-natural sources on its lands. The Monitoring and Reporting Program shall be implemented for a period of three years. Staff shall present the results of the Monitoring and Reporting Program to the Regional Water Board after one year. The Executive Officer or the Regional Water Board may revise the Monitoring and Reporting Program at any time.

As originally ordered by Lee Michlin, Executive Officer, on February 27, 2001; and ratified with modifications by the Regional Water Quality Control Board, North Coast Region, after conducting a hearing on June 28, 2001.

Certification

I, Lee A. Michlin, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order ratified with modifications by the California Regional Water Quality Control Board, North Coast Region, on July 3, 2001.

Lee A. Michlin
Executive Officer

July 3, 2001

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